

Claims

1. An assembly for protection against an explosion, said assembly including a substantially plate-shaped multi-ply element formed by two outer walls (1, 2) and at least one intermediate layer (3) of a particle-shaped material, **characterised in that** at least one layer of a particle-shaped material is a ceramic material presenting a density in the range of approximately 0.3 to 2.5 g/cm<sup>3</sup>, a pore diameter in the range of approximately 20 to 120  $\mu$  and a physical extent in the range of approximately 5 to 10 mm.
- 10 2. An assembly According to claim 1, **characterised in that** the ceramic material presents a crystal size in the range of approximately 1 to 20  $\mu$ .
- 15 3. An assembly according to claim 1 or 2, **characterised in that** the ceramic material presents a density in the range of approximately 0.5 to 0.95 g/cm<sup>3</sup> and preferably in the range of approximately 0.6 to 0.8 g/cm<sup>3</sup>.
- 20 4. An assembly according to claim 1,2 or 3, **characterised in that** the ceramic material presents a pore diameter in the range of approximately 30 to 80  $\mu$  and preferably in the range of approximately 45 to 65  $\mu$ .
- 25 5. An assembly according to claim 1,2,3 or 4, **characterised in that** the ceramic material presents a physical extent in the range of approximately 1 to 7 mm and preferably in the range of approximately 2 to 5 mm.
6. An assembly according to one or more of the preceding claims 1 to 5, **characterised in that** the outer walls (1, 2) are made of a metal material.
- 30 7. An assembly according to one or more of the preceding claims 1 to 6, **characterised in that** the outer walls (1, 2) are made of a fibre-reinforced rubber material.